Abstract of the Disclosure

~~Conversion of Contiguous~~ Concatenation ~~to Virtual Concatenation in a Synchronous Digital Communication Network~~

In a method of transmitting user data over a synchronous digital communication network (SDH), the user data are packed in multiplex units by a peripheral device (10; 40). If a greater bandwidth than the capacity of the multiplex unit is required, several multiplex units are contiguously concatenated (VC-4-4c) and transmitted in a common transport module (STM-4). At the gateway to the synchronous communication network, the contiguous concatenation of the multiplex units (VC-4-4c) is converted to a virtual concatenation of multiplex units (VC-4-Nv). To adapt the number of concatenated multiplex units to the bandwidth actually required, only part of the multiplex units are filled with user data, and during the conversion, those multiplex units which are not filled with user data are omitted.